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KORG

GUITAR/BASS CHROMATIC TUNER

GT–120

Owner's Manual

Thank you for purchasing the **Korg GT-120 guitar/bass chromatic tuner**. Before you use the **GT-120**, please read this owner's manual carefully, and use the **GT-120** as directed. Keep this manual for future reference.

Precautions

Location

Using the unit in the following locations can result in a malfunction.
- In direct sunlight
- Locations of extreme temperature or humidity
- Excessively dusty or dirty locations
- Locations of excessive vibration

Power supply

Please connect the designated AC adaptor to an AC outlet of the correct voltage. Do not connect it to an AC outlet of voltage other than that for which your unit is intended.

Interference with other electrical devices

This product contains a microcomputer. Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions.

Handling

To avoid breakage, do not apply excessive force to the switches or controls.

Care

If the exterior becomes dirty, wipe it with a clean, dry cloth. Do not use liquid cleaners such as benzene or thinner, or cleaning compounds or flammable polishes.

Keep this manual

After reading this manual, please keep it for later reference.

Keeping foreign matter out of your equipment

- Never set any container with liquid in it near this equipment. If liquid gets into the equipment, it could cause a breakdown, fire, or electrical shock.
- Be careful not to let metal objects get into the equipment. If something does slip into the equipment, unplug the AC adaptor from the wall outlet. Then contact your nearest Korg dealer or the store where the equipment was purchased.

CE mark for European Harmonized Standards

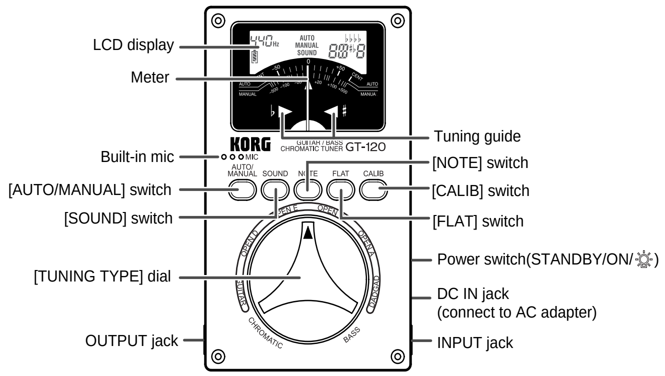
CE mark which is attached to our company's products of AC mains operated apparatus until December 31, 1996 means it conforms to EMC Directive (89/336/EEC) and CE mark Directive (93/68/EEC). And, CE mark which is attached after January 1, 1997 means it conforms to EMC Directive (89/336/EEC), CE mark Directive (93/68/EEC) and Low Voltage Directive (73/23/EEC).
Also, CE mark which is attached to our company's products of Battery operated apparatus means it conforms to EMC Directive (89/336/EEC) and CE mark Directive (93/68/EEC).

THE FCC REGULATION WARNING (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

Parts of the GT-120



Tuning procedure

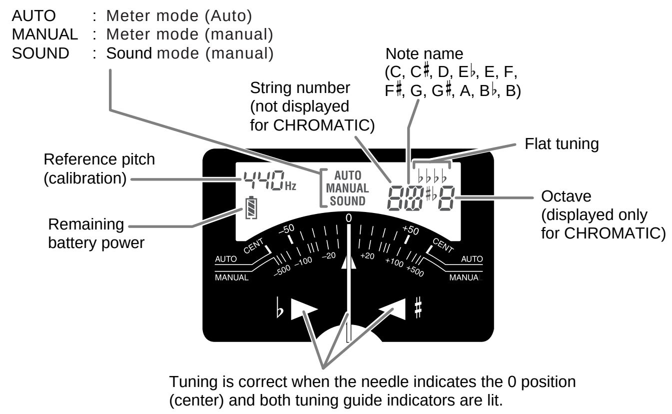
The GT-120 has two tuning modes: **Meter mode** (auto/manual) in which you tune while watching a meter, and **Sound mode** (manual) in which you tune to an audible reference tone.

■ Meter mode

1. **If you are using an instrument with a pickup (such as an electric guitar) or a mic, connect the instrument or mic to the INPUT jack of the GT-120.**
(If you connect the GT-120's OUTPUT jack to your amp etc., the sound will be output thru the tuner. During your performance however, you may want to turn the GT-120 power switch STANDBY to avoid noise.)
If a plug is inserted into the INPUT jack or OUTPUT jack, the built-in mic cannot be used. Both jacks are mono. They cannot be used with stereo plugs.
If you wish to tune your instrument using the built-in mic, do not connect a plug to the INPUT jack or OUTPUT jack. In steps 5 and 6, place your instrument as close as possible to the built-in mic.
2. **Turn the power switch to the ON or ☼ position.** (At the ☼ position, the power will be on, and in addition the display will be illuminated.)
When the power is turned on, the previously-selected reference pitch (default setting: A=440 Hz) will be selected, and the GT-120 will be in Meter mode (Auto)
3. **If you wish to change the reference pitch (calibration), press the [CALIB] switch.**
Each time you press it, the reference pitch will rise 1 Hz. If you continue holding it, the pitch will rise continuously. The available range is 438 Hz–445 Hz.
4. **Rotate the [TUNING TYPE] dial to select the appropriate instrument or set to CHROMATIC.**
Move the appropriate instrument name to the ► mark.
Each setting allows the following tuning. ( ): Default values for MANUAL
CHROMATIC : C, C♯, D, E♭, E, F, F♯, G, G♯, A, B♭, B (A, sound output: A4)
GUITAR : 6E, 5A, 4D, 3G, 2B, 1E (6E)
OPEN D : 6D, 5A, 4D, 3F♯, 2A, 1D (6D)
OPEN E : 6E, 5B, 4E, 3G♯, 2B, 1E (6E)
OPEN G : 6D, 5G, 4D, 3G, 2B, 1D (6D)
OPEN A : 6E, 5A, 4E, 3A, 2C♯, 1E (6E)
DADGAD : 6D, 5A, 4D, 3G, 2A, 1D (6D)
BASS : LB, 4E, 3A, 2D, 1G, HC (LB) LB: Low B, HC: High C
5. **Specify the note name.**
When using AUTO
Play a single note on your instrument, and the name of the nearest note will appear in the LCD display. Tune your instrument so that the correct note name is shown in the LCD display.
When using MANUAL
Press the [NOTE] switch until the note you wish to tune (C–B) appears in the LCD display.

- *Each time you press the [AUTO/MANUAL] switch, the setting will switch between AUTO and MANUAL.*

6. **Play a single note on your instrument, and tune it so that the needle of the meter is at the 0 position (center) and both indicators of the tuning guide are lit.**
While tuning, do not allow extraneous sounds to enter the mic.



■ Sound mode

1. **Make the settings described in steps 1–4 of "Meter mode."**
2. **Press the [SOUND] switch to enter Sound mode (manual).**
3. **Press the [NOTE] switch until the note to which you wish to tune appears in the LCD display.**
4. **Listen to the pitch sounded by the GT-120, and tune your instrument accordingly.**

- *To return to Meter mode, press the [AUTO/MANUAL] switch.*

● Flat tuning

When the [TUNING TYPE] dial is set to **GUITAR** or **BASS**, you can use Meter mode or Sound mode to tune to a pitch that is lowered by 1–4 semitones (♭–♭♭♭♭) for the specified note.

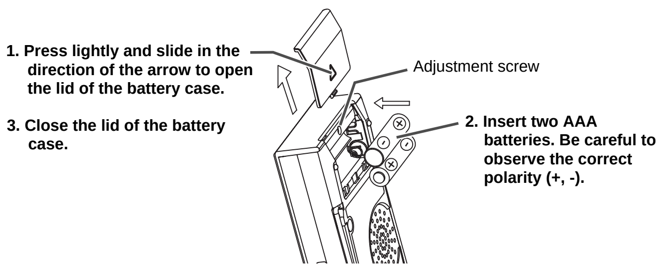
1. **As described in "Meter mode" or "Sound mode," make the note you wish to flatten by 1–4 semitones appear in the LCD display.**
Set the [TUNING TYPE] dial to either GUITAR or BASS. Flat tuning can only be used for these selections.
2. **Press the [FLAT] switch to select the number of semitones that you wish to lower the selected note.**
The LCD screen will indicate ♭–♭♭♭♭ (1–4 semitones).
3. **Tune your instrument.**

Replacing the batteries, and the memory function

As the batteries begin to run down, accurate tuning will become more difficult. Check the battery indicator in the LCD display, and replace the batteries as soon as necessary.
The batteries are also used to preserve the memory when the power is turned off, allowing the reference pitch, meter mode (manual), and the note you selected for Sound mode to be remembered (Memory function).

When the batteries are removed or if they run down completely, the various settings preserved by the memory function will be reset. (If an AC adapter is connected to the GT-120 and plugged into an AC outlet, the settings will not be reset.)

Even if you are using the GT-120 with an AC adapter, you should leave the batteries installed.



Adjusting the zero point of the meter needle

If the GT–120 is jarred while being transported etc., or due to normal aging after extended use, the VU style meter may drift away from the 0 position (center). Please re-adjust the VU style meter to the 0 position so that tuning will be accurate.

1. **While holding down the [AUTO/MANUAL] switch, turn the power switch ON, and check whether the meter needle indicates the 0 position.**
2. **If it does not indicate the 0 position, refer to the diagram in the above section "Replacing the batteries, and the memory function," open the battery cover, and use a small Philips (+) screwdriver (such as a jeweler's screwdriver) to rotate the adjustment control so that the needle indicates 0.**
3. **After making the adjustment (or if the meter needle indicated 0 in step 1), press any one of the switches to return to normal operation, and close the battery cover.**

Specifications

Scale	: 12 note equal temperament
Range	: A0–C8
Reference tone	: C2–C7 (5 octaves)
Tuning modes	: Meter (auto/manual) Sound (manual)
Flat tuning	: 1–4 semitones (semitone steps)
Calibration range	: A4=438–445 Hz (1 Hz steps)
Detection accuracy	: +/-1 cent
Sound accuracy	: +/-1.5 cents
Tuning guide range	: **Auto** (chromatic) -50 cents– -3 cents : ♭ -3 cents– +3 cents : ♭, ♯ +3 cents– +50 cents : ♯ **Manual** -500 cents– -3 cents : ♭ -3 cents– +3 cents : ♭, ♯ +3 cents– +500 cents : ♯
Connectors	: INPUT (1/4" mono), OUTPUT (1/4" mono), DC IN (9V)
Power supply	: AAA batteries x 2 (3V), or AC adapter (⊕-C-⊖)
Battery life	: Approximately 100 hours (Alkaline batteries, Meter mode, A4 continuous input)
Dimensions (WxDxH)	: 74 x 120 x 36mm [2.91" x 4.71" x 1.42"]
Weight	: 193g [6.8 oz] : including the battery
Included items	: AAA batteries x 2 for checking operation
Options (sold separately)	: AC adapter (⊕-C-⊖)

** Appearance and specifications are subject to change without notice.*

Using the stand

By opening the stand located on the back, you can position the GT-120 at a convenient angle.

The VU style meter may drift from the 0 position (center) when the OT–120 is tilted. If this occurs, perform the procedure described in "Adjusting the zero point of the VU style meter" while the unit is tilted, so that the VU style meter points to 0.

